

FIG. 1A-C

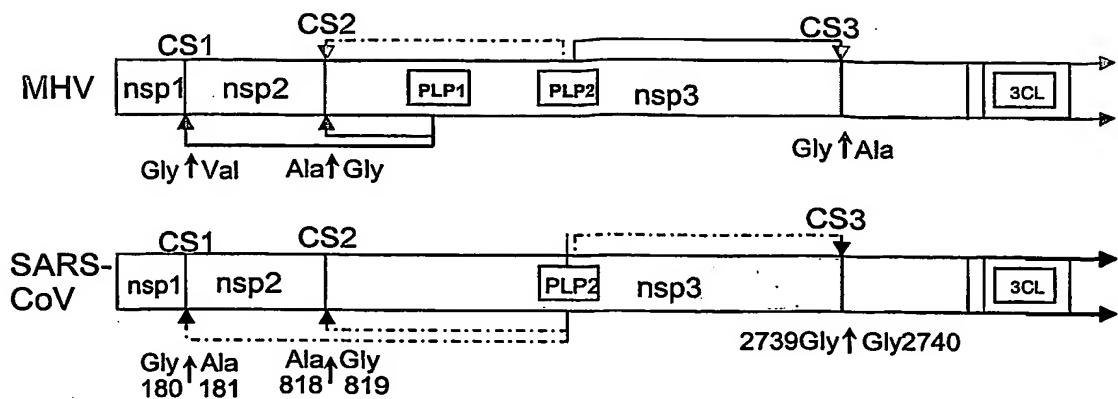


Fig. 2

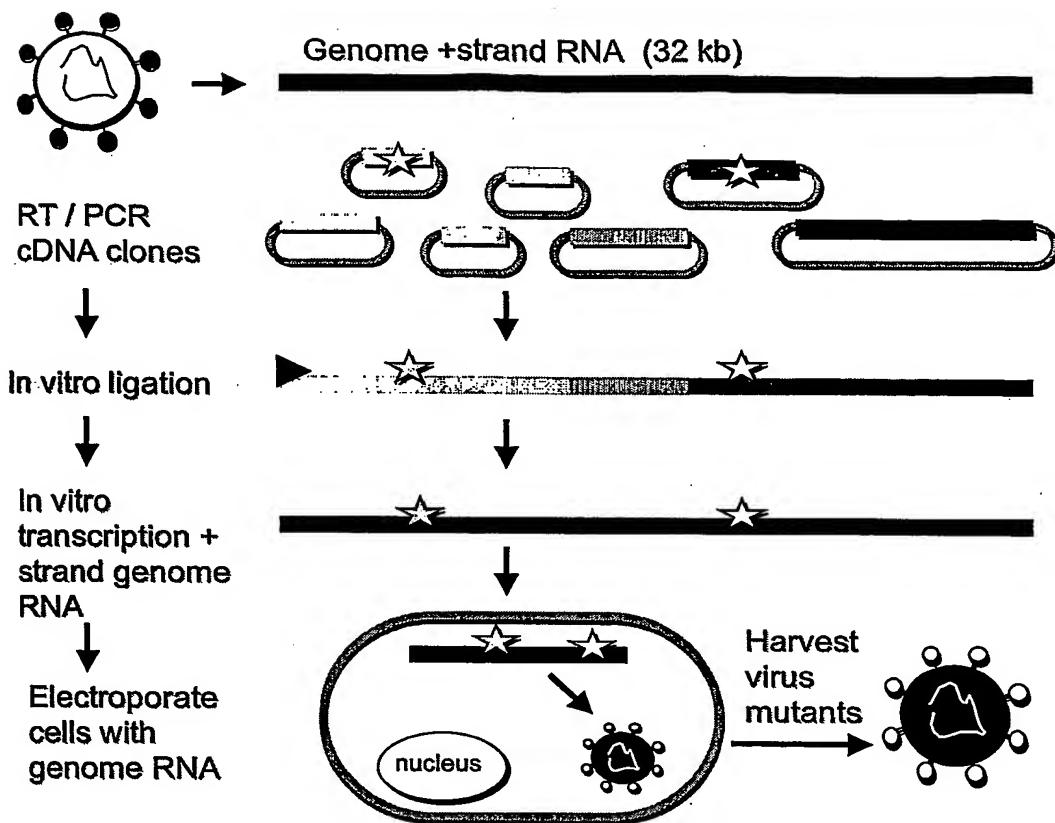
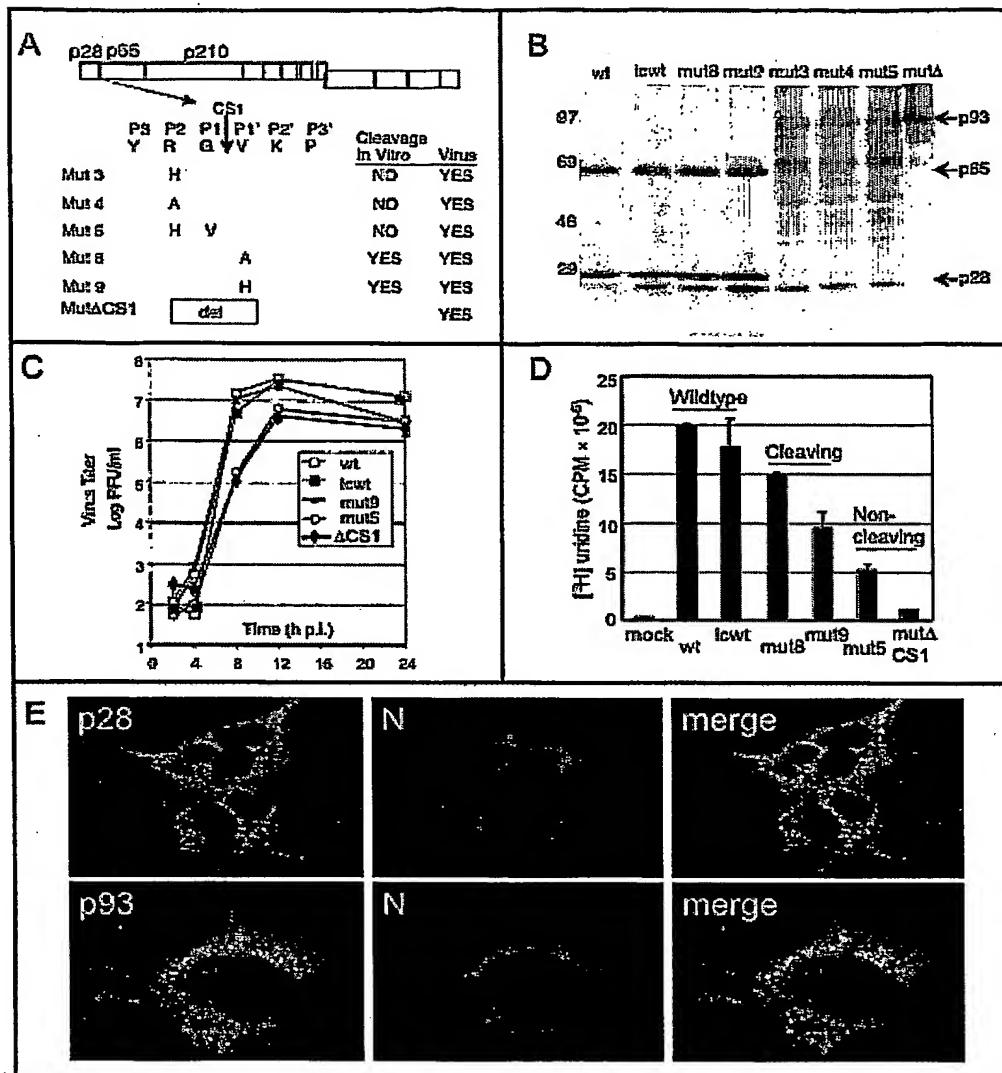
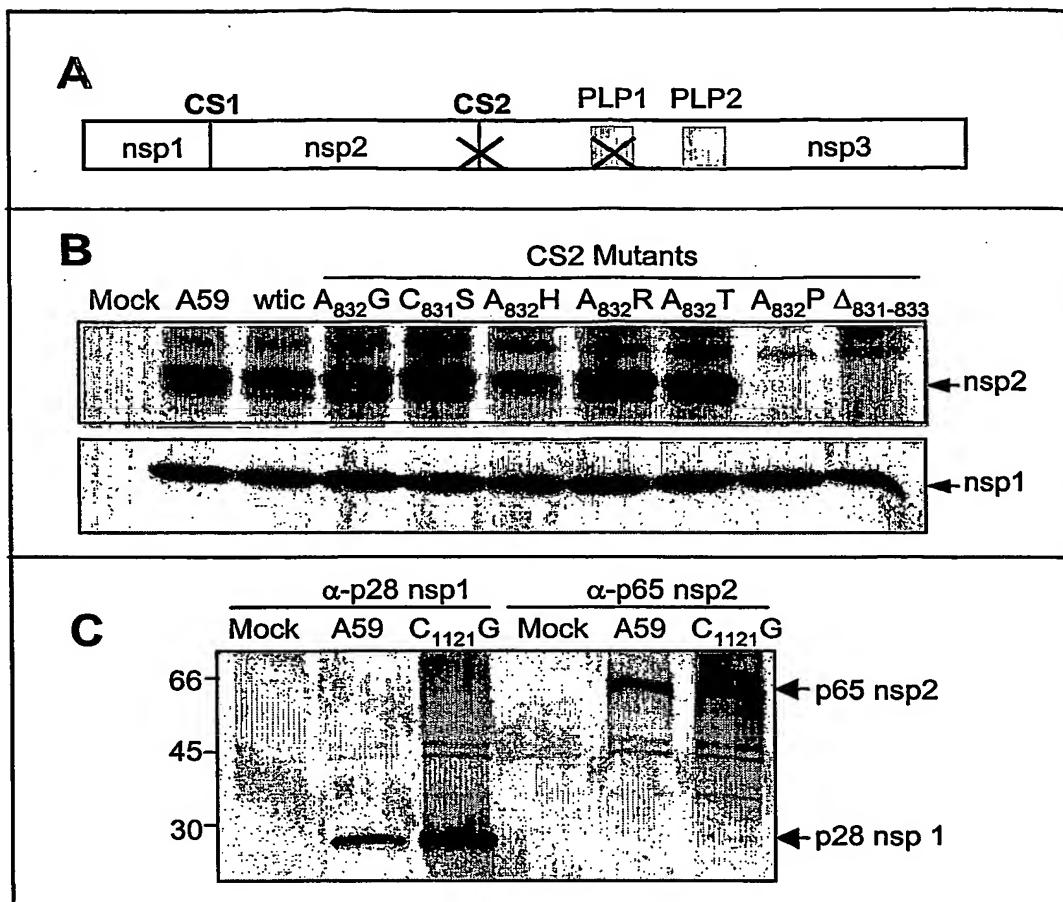


FIG. 3



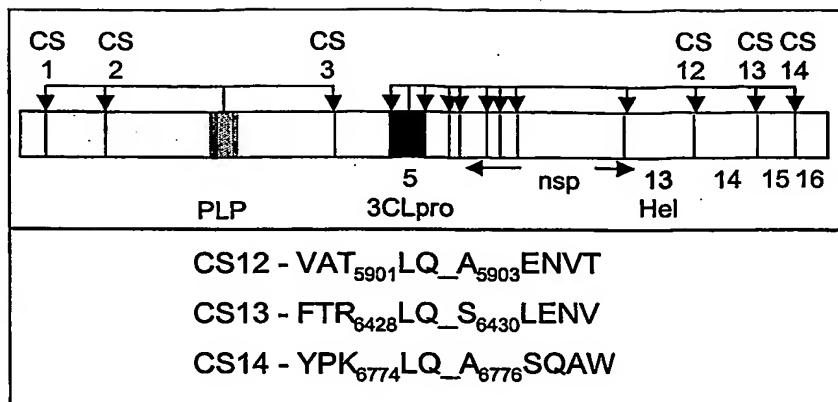
FIGS. 4A-E



**FIGS. 5A-C**

CS1 AB	CS2	CS3	
nsp1	nsp2	nsp3	nsp4
P3 P2 P1 P1 <sup>0</sup> P2 <sup>0</sup> P3 <sup>0</sup>			
<b>CS1A</b> AAT GGA GGT GCA GTC ACT			
N G G A V T			
CS1AΔ AAT	GTC ACT		
P1VVP1' ————— GTC GTA (Val) —————			
P1'G ————— CGT (Gly) —————			
P3 P2 P1 P1 <sup>0</sup> P2 <sup>0</sup> P3 <sup>0</sup>			
<b>CS1B</b> AAG AGA GGT GTC TAC TGC			
K R G V Y C			
CS1BΔ AAG	TAC TGC		
P2HVP1' ————— CAT GTT (HisVal) —————			
P1'A ————— CCG (Ala) —————			
P1'H ————— CAT (His) —————			
P3 P2 P1 P1 <sup>0</sup> P2 <sup>0</sup> P3 <sup>0</sup>			
<b>CS2</b> AAA GGG GGT GCA CCA ATT			
K G G A P I			
CS2Δ AAA	CCA ATT		
P1VVP1' ————— GTC GTT (ValVal) —————			
P1'G ————— CGT (Gly) —————			
P3 P2 P1 P1 <sup>0</sup> P2 <sup>0</sup> P3 <sup>0</sup>			
<b>CS3</b> AAG GGT GGT AAG ATT GTT			
K G G K I V			
CS3Δ AAG	ATT GTT		
P1VVP1' ————— GTT GTC (ValVal) —————			
P1'A ————— GCC (Ala) —————			

FIG. 6

**FIG. 7**